

What is claimed is;

1. A management device for managing a print system comprising a data processor connected to a network and a printer for executing a print job sent from the data processor via the network, the data processor having a first software program which are installed therein, and the printer having a second software program which are installed therein, the device comprising:

10 deciding controller for determining adaptability between old version and new version for the first software program and the second software program installed in the data processor and the printer; and

15 updating controller for executing a predetermined process to update the first and the second software programs on the data processor and the printer based on the determination result by the determining controller.

2. The management device according to claim 1, wherein the updating controller updates the first software program and the second software program in a predetermined order which is defined based on the determination result by the determining controller.

25 3. The management device according to claim 2,

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installed from being updated.

7. The management device according to claim 5,  
wherein when the determining controller determines that the  
5 new version of the second software program is not adaptable  
to neither the new version or the old version of the first  
software program, the updating controller prohibits the second  
software program already installed from being updated.

10 8. The management device according to claim 1,  
wherein the updating controller sends a message which prompts  
update of the first and the second software programs to the  
data processor to display the message, based on the  
determination result by the determining controller.

15 9. The management device according to claim 1,  
further comprising a memory for storing information about the  
adaptability between new version and old version for the first  
software program and the second software program, wherein the  
20 determining controller downloads the information about the  
adaptability via the network into the memory to determine the  
adaptability based on the downloaded information.

10. The management device according to claim 1,  
25 wherein the management device is incorporated in the printer.

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11. The management device according to claim 10,  
wherein the updating controller receives information about the  
version of the first software program installed in the data  
processor, as well as the print job sent from the data processor,  
and executes said predetermined process based on the received  
information about the version.

12. The management device according to claim 1,  
wherein when the other data processor is connected to the  
network, the updating controller also executes the  
predetermined process to the other data processor.

13. The management device according to claim 1,  
wherein the first software program controls the data processor  
to generate a print job corresponding to the printer, and the  
second software program controls the printer to execute the  
print job generated by the first software program.

14. A management device for managing a print system  
comprising a data processor and a printer for executing a print  
job sent from the data processor, the data processor having  
a first software program installed therein, the printer having  
a second software program installed therein, the device being  
capable of being connected to a network and comprising:

deciding controller for determining adaptability between old version and new version for the first software program and the second software program, based on adaptability information obtained via the network; and

5 updating controller for executing a predetermined process to update the installed first software program and the installed second software program based on the determination result by the determining controller.

10 15. The management device according to claim 14, wherein the updating controller updates the installed first software program and the installed second software program in a predetermined order which is defined based on the determination result by the determining controller.

15 16. The management device according to claim 15, wherein when the determining controller determines that there is no adaptability between the new version of the first software program and the old version of the second software program,  
20 the updating controller updates first the installed second software program and then updates the installed first software program.

17. The management device according to claim 15,  
25 wherein when the determining controller determines that there

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28. A management method for managing a print system comprising a data processor connected to a network and a printer for executing a print job sent from the data processor via the network, the data processor having a first software program which are installed therein, and the printer having a second software program which are installed therein, the method comprising:

26. The management method according to claim 25, wherein the updating comprises updating the first software program and the second software program in a predetermined order which is defined based on the determination result.

27. The management method according to claim 25, wherein the updating comprises controlling execution and prohibition of update of the first and the second software



28. The management method according to claim 25, wherein the updating comprises sending a message which prompts update of the first and the second software programs to the data processor to display the message, based on the determination result.

30. The management method according to claim 25, wherein the first software program controls the data processor to generate a print job corresponding to the printer, and the second software program controls the printer to execute the print job generated by the first software program.

~~31.~~ A management method for managing a print system comprising a data processor and a printer for executing a print job sent from the data processor, the data processor having a first software program installed therein, the printer having a second software program installed therein, the method

comprising:

deciding adaptability between old version and new version for the first software program installed in the data processor and the second software program installed in the printer based on adaptability information, the adaptability information being obtained via a wide area network; and

updating the installed first software program and the installed second software program by executing a predetermined process to update based on the determination result.

32. The management method according to claim 31, wherein the updating comprises updating the installed first software program and the installed second software program in a predetermined order which is defined based on the determination result.

33. The management method according to claim 33, wherein the updating comprises controlling execution and prohibition of update of the first and the second software programs based on the determination result.

34. The management method according to claim 31, wherein the updating comprises sending a message which prompts update of the first and the second software programs to the

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data processor to display the message based on the determination result.

35. The management method according to claim 31,  
5 further comprising:

accessing periodically a WEB site on which the latest version of the first and the second software programs are registered;

deciding whether or not the first and the second  
10 software programs registered on the WEB site are updated; and  
activating the determining controller and the updating controller when the first and second software programs are determined to be updated.

15 ~~36.~~ A computer program product for managing a print system comprising a data processor connected to a network and a printer for executing a print job sent from the data processor via the network, the data processor having a first software program which are installed therein, and the printer having  
20 a second software program which are installed therein, the computer program product comprising:

deciding control for determining adaptability between old version and new version for the first software program and the second software program installed in the data  
25 processor and the printer; and

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about the adaptability via the network into a memory and determines the adaptability based on the downloaded information.

5 41. The computer program product according to claim 36, wherein the first software program controls the data processor to generate a print job corresponding to the printer, and the second software program controls the printer to execute the print job generated by the first software program.

10 ~~42.~~ A computer program product for managing a print system comprising a data processor and a printer for executing a print job sent from the data processor, the data processor having a first software program installed therein, the printer  
15 having a second software program installed therein, the computer program product comprising:

deciding control for determining adaptability between old version and new version for the first software program installed in the data processor and the second software  
20 program installed in the printer based on adaptability information, the adaptability information being obtained via a wide area network; and

updating control for updating the installed first software program and the installed second software program by  
25 executing a predetermined process to update based on the

determination result by the determining control.

43. The computer program product according to claim 42, wherein the updating control updates the installed first software program and the installed second software program in a predetermined order which is defined based on the determination result by the determining control.

44. The computer program product according to claim 42, wherein the updating control controls execution and prohibition of update of the first and the second software programs based on the determination result by the determining control.

45. The computer program product according to claim 42, wherein the updating control sends a message which prompts update of the first and the second software programs to the data processor to display the message based on the determination result by the determining control.

46. The computer program product according to claim 42, further comprising activating control for accessing periodically a WEB site on which the latest version of the first and the second software programs are registered, determining whether or not the first and the second software programs

registered on the WEB site are updated, and activating the determining controller and the updating controller when the first and second software programs are determined to be updated.

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47. A management device for managing a print system comprising a data processor connected to a network and a printer for executing a print job sent from the data processor via the network, the data processor having a software program installed therein, the printer having a software program installed therein, the device comprising:

detecting controller for detecting whether or not the software program installed in one of the data processor and the printer is updated;

deciding controller for determining adaptability between the software program installed in the data processor and the software program installed in the printer in response to the detecting result by the detecting controller; and

updating controller for executing a predetermined process to update the software program installed in the other of the data processor and the printer.

48. The management device according to claim 47, wherein when the determining controller determines that there is no adaptability, the updating controller updates the

49. The management device according to claim 48, wherein when the determining controller determines that there is no adaptability, the updating controller sends a message which prompts update of the software program installed in the other of the data processor and the printer to the data processor to display the message.

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        detecting whether or not the software program
installed in one of the data processor and the printer is
updated;

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updating the software program installed in the other of the data processor and the printer by executing a



predetermined process to update.

51. The management method according to claim 50,  
wherein the updating comprises updating the software program  
5 installed in the other of the data processor and the printer,  
when it is determined that there is no adaptability.

52. The management method according to claim 50,  
wherein the updating comprises sending a message which prompts  
10 update of the software program installed in the other of the  
data processor and the printer to the data processor to display  
the message, when it is determined that there is no  
adaptability.

15 ~~53.~~ A computer program product for managing a print  
system comprising a data processor connected to a network and  
a printer for executing a print job sent from the data processor  
via the network, the data processor having a software program  
installed therein, the printer having a software program  
20 installed therein, the computer program product comprising:

detecting control for detecting whether or not the  
software program installed in one of the data processor and  
the printer is updated;

deciding control for determining adaptability  
25 between the software program installed in the data processor

and the software program installed in the printer in response to the detecting result by the detecting control; and

updating control for executing a predetermined process to update the software program installed in the other of the data processor and the printer.

54. The computer program product according to claim 53, wherein when the determining control determines that there is no adaptability, the updating control updates the software program installed in the other of the data processor and the printer.

55. The computer program product according to claim 53, wherein when the determining control determines that there is no adaptability, the updating control sends a message which prompts update of the software program installed in the other of the data processor and the printer to the data processor to display the message.